查询KPI-L06供应商

Photointerrupter(Transmissive)

KODENSHI

KPI-L06

DESCRIPTION

The photointerrupter high-performance standard type KPI-L06 combines a high-output GaAs IRED with a high sensitivity phototransistor.

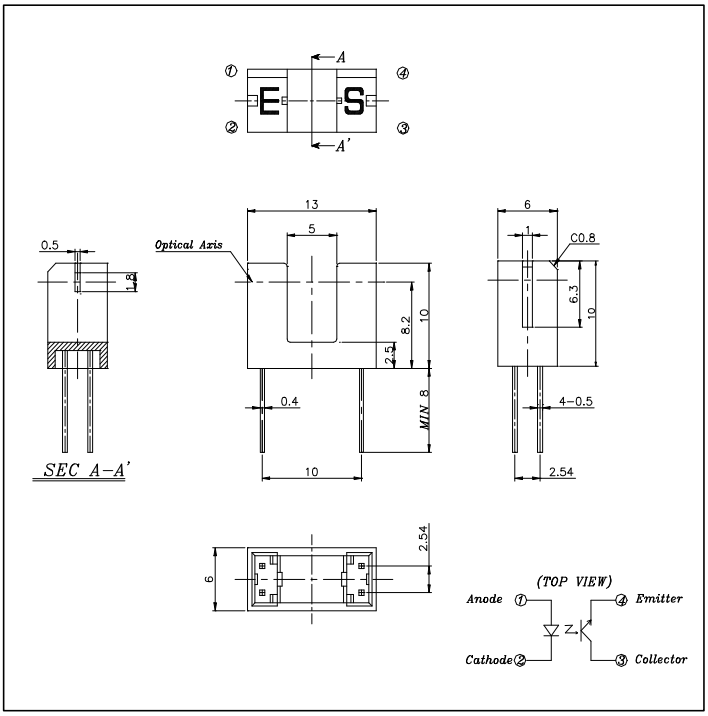
FEATURES

- PWB direct mount type
- GAP : 5.0mm
- Easy to mount

APPLICATIONS

- Printers
- Copiers
- A T M
- Ticket Vending Machines

DIMENSIONS



ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)

Parameter		Symbol	Rating	Unit
Input	Forward Current	I_F	60	mA
	Pulse Forward Current *1	I_{FP}	1	A
	Reverse Voltage	V_R	5	V
	Power Dissipation	P_D	100	mW
Output	Collector Emitter Voltage	V_{CEO}	30	V
	Emitter Collector Voltage	V_{ECO}	5	V
	Collector Current	I_C	40	mA
	Collector Power Dissipation	P_C	100	mW
Operating Temperature *2		T_{OPR}	-20 ~ +85	℃
Storage Temperature *2		T_{STG}	-30 ~ +85	℃
Soldering Temperature *3		T_{SOL}	260	℃

*1. Pulse width : tw≤100μsec.period : T=10msec

*2. No icebound or dew

*3. For MAX. 5 seconds at the position of 1mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25℃)

Parameter			Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward Voltage		V_F	I_F=20mA	-	1.2	1.7	V
	Reverse Current		I_R	V_R=5V	-	-	10	μA
	Capacitance		C_T	f=1KHz	-	25	-	pF
	Peak Wavelength		$?_P$	I_F=20mA	-	940	-	nm
Output	Dark Current		I_{CEO}	V_{CE}=5V, 0 Lux	-	-	100	nA
Coupled	Light Current		I_L	V_{CE}=5V, I_F= 20mA (Non-shading	0.5	-	15	mA
	Collector Emitter Saturation Voltage		$V_{CE(SAT)}$	I_F=20mA, I_C=0.1mA	-	-	0.4	V
	Response Time	Rise Time	tr	V_{CC}=5V, I_C=2mA, R_L=100Ω	-	5	-	μs
		Fall Time	tf		-	5	-	μs

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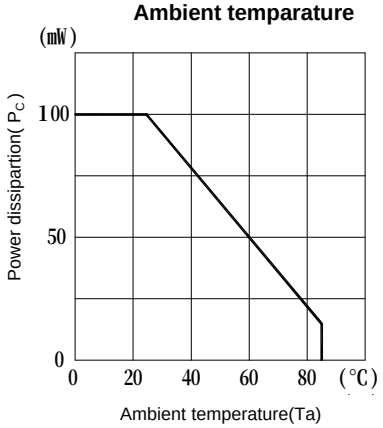
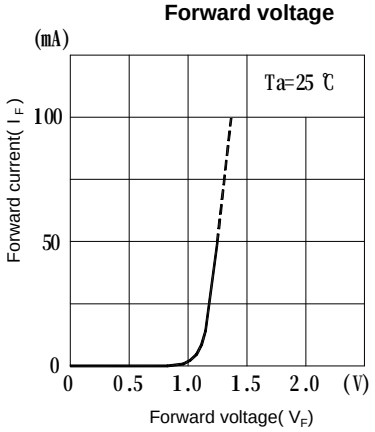
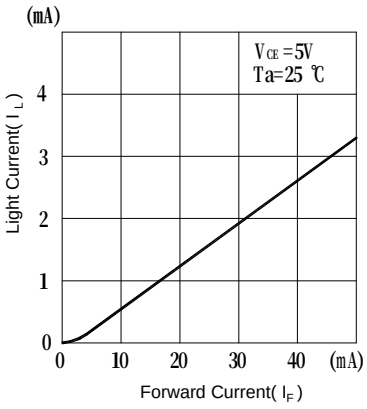
Collector power dissipation Vs. Ambient temparature



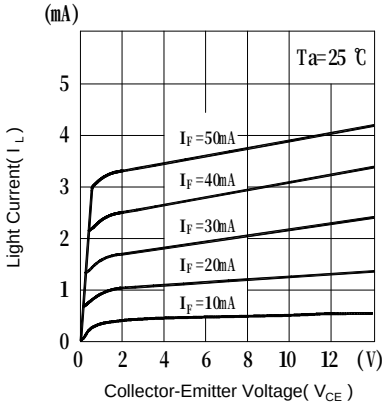
Forward current Vs. Forward voltage



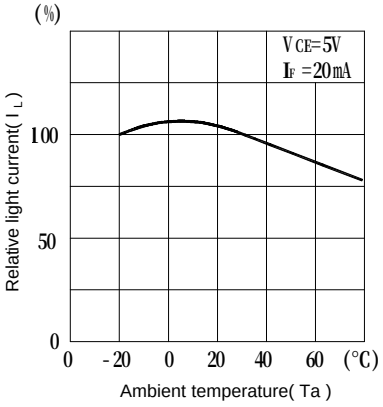
Light current Vs. Forward current



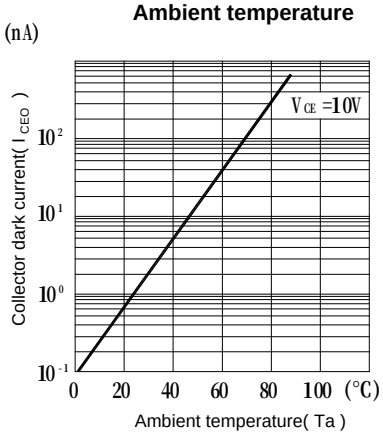
Light current Vs. Collentor-Emitter voltage



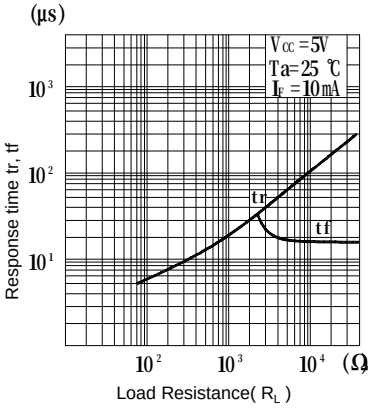
Relative light current Vs. Ambient temperature



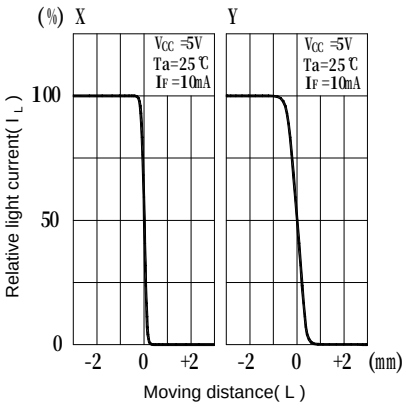
Dark current Vs. Ambient temperature



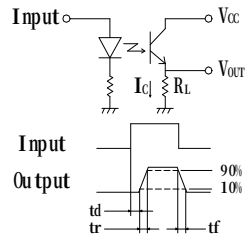
Switching time Vs. Load resistance



Relative light current Vs. Moving distance



Response time measurement circuit



Method of measuring position detection characteristic